This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/832,355A

DATE: 07/18/2001 TIME: 09:49:45

Input Set : A:\205654.txt

Output Set: N:\CRF3\07182001\1832355A.raw

```
3 <110> APPLICANT: Kovesdi, Imre
        Kessler, Paul
 6 <120> TITLE OF INVENTION: VEGF FUSION PROTEINS
 8 <130> FILE REFERENCE: 205654
10 <140> CURRENT APPLICATION NUMBER: US 09/832,355A
11 <141> CURRENT FILING DATE: 2001-04-10
13 <160> NUMBER OF SEQ ID NOS: 126
                                                                 ENTERED
15 <170> SOFTWARE: PatentIn version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 121
19 <212> TYPE: PRT
20 <213> ORGANISM: Homo sapiens
22 <400> SEQUENCE: 1
24 Ala Pro Met Ala Glu Gly Gly Gln Asn His His Glu Val Val Lys
27 Phe Met Asp Val Tyr Gln Arg Ser Tyr Cys His Pro Ile Glu Thr Leu
      ٠ ، ، 20
30 Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys
                               40
          35
33 Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu
                           55
36 Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile
                       70
39 Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser Phe
42 Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg
              100
45 Gln Glu Lys Cys Asp Lys Pro Arg Arg
          115
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 101
50 <212> TYPE: PRT
51 <213> ORGANISM: Homo sapiens
53 <400> SEQUENCE: 2
55 Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln Arg Ser
58 Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu Tyr Pro
61 Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu Met Arg
64 Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro Thr Glu
                           55
67 Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His Gln Gly
                                          75
                      70
70 Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys Glu Cys
                                       90
```

73 Arg Pro Lys Lys Asp

RAW SEQUENCE LISTING DATE: 07/18/2001 PATENT APPLICATION: US/09/832,355A TIME: 09:49:45

Input Set : A:\205654.txt

Output Set: N:\CRF3\07182001\1832355A.raw

```
74
                   100
    76 <210> SEO ID NO: 3
    77 <211> LENGTH: 44
    78 <212> TYPE: PRT
    79 <213> ORGANISM: Homo sapiens
    81 <400> SEQUENCE: 3
    83 Pro Cys Gly Pro Cys Ser Glu Arg Arg Lys His Leu Phe Val Gln Asp
                                          10
    86 Pro Gln Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys
                   20
                                      25
                                                          30
    87
    89 Ala Arg Gln Leu Glu Leu Asn Glu Arg Thr Cys Arg
               35
    92 <210> SEQ ID NO: 4
    93 <211> LENGTH: 366
    94 <212> TYPE: DNA
    95 <213> ORGANISM: Homo sapiens
    97 <400> SEQUENCE: 4
    98 qcacccatqq caqaaqqaqq agggcagaat catcacgaag tggtgaagtt catggatgtc
    100 tatcagegea getactgeea tecaategag accetggtgg acatetteea ggagtaceet
                                                                            120
    102 gatgagateg agtacatett caagecatee tgtgtgeeee tgatgegatg egggggetge
                                                                            180
                                                                            240
    104 tgcaatgacg agggcctgga gtgtgtgccc actgaggagt ccaacatcac catgcagatt
                                                                            300
    106 atgcggatca aacctcacca aggccagcac ataggagaga tgagcttcct acagcacaac
    108 aaatgtgaat gcagaccaaa gaaagataga gcaagacaag aaaaatgtga caagccgagg
                                                                            360
    110 cggtga
                                                                            366
    112 <210> SEQ ID NO: 5
    113 <211> LENGTH: 14
    114 <212> TYPE: PRT
    115 <213> ORGANISM: Artificial sequence
    117 <220> FEATURE:
    118 <221> NAME/KEY: misc feature
    119 <222> LOCATION: ()..()
    120 <223> OTHER INFORMATION: Synthetic
    122 <220> FEATURE:
    123 <221> NAME/KEY: misc feature
    124 <222> LOCATION: (2)..(2)
    125 <223> OTHER INFORMATION: "Xaa" may be any amino acid
    127 <220> FEATURE:
    128 <221> NAME/KEY: misc_feature
    129 <222> LOCATION: (5)...(7)
    130 <223> OTHER INFORMATION: "Xaa" may be any amino acid
    132 <220> FEATURE:
    133 <221> NAME/KEY: misc feature
    134 <222> LOCATION: (10)..(10)
    135 <223> OTHER INFORMATION: "Xaa" may be any amino acid
    137 <400> SEQUENCE: 5
140 1
                       5
    142 <210> SEQ ID NO: 6
    143 <211> LENGTH: 25
```

RAW SEQUENCE LISTING DATE: 07/18/2001 PATENT APPLICATION: US/09/832,355A TIME: 09:49:45

Input Set : A:\205654.txt

Output Set: N:\CRF3\07182001\1832355A.raw

```
144 <212> TYPE: PRT
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 6
149 Lys Lys Ser Val Arg Gly Lys Gly Lys Gly Gln Lys Arg Lys Arg Lys
152 Lys Ser Arg Tyr Lys Ser Trp Ser Val
               20
155 <210> SEQ ID NO: 7
156 <211> LENGTH: 6
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 7
162 Ala Arg Gln Glu Lys Cys
163 1
165 <210> SEQ ID NO: 8
166 <211> LENGTH: 11
167 <212> TYPE: PRT
168 <213> ORGANISM: Homo sapiens
170 <400> SEQUENCE: 8
172 Ala Arg Gln Glu Lys Cys Asp Lys Pro Arg Arg
                · 5
175 <210> SEQ ID NO: 9
176 <211> LENGTH: 8
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial sequence
180 <220> FEATURE:
181 <221> NAME/KEY: misc feature
182 <222> LOCATION: ()..()
183 <223> OTHER INFORMATION: Synthetic
185 <400> SEQUENCE: 9
187 Tyr Val Gly Ala Arg Cys Cys Leu
188 1
190 <210> SEQ ID NO: 10
191 <211> LENGTH: 8
192 <212> TYPE: PRT
193 <213> ORGANISM: Artificial sequence
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: ()..()
198 <223> OTHER INFORMATION: Synthetic
200 <400> SEQUENCE: 10
202 Met Pro Trp Ser Leu Pro Gly Pro
203 1
205 <210> SEQ ID NO: 11
206 <211> LENGTH: 16
207 <212> TYPE: PRT
208 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 11
212 Tyr Val Gly Ala Arg Cys Cys Leu Met Pro Trp Ser Leu Pro Gly Pro
```

DATE: 07/18/2001

```
PATENT APPLICATION: US/09/832,355A
                                                           TIME: 09:49:45
                 Input Set : A:\205654.txt
                 Output Set: N:\CRF3\07182001\I832355A.raw
 213 1
                                          10
                                                              15
 215 <210> SEQ ID NO: 12
 216 <211> LENGTH: 23
 217 <212> TYPE: PRT
 218 <213> ORGANISM: Homo sapiens
 220 <400> SEQUENCE: 12
 222 Lys Ser Val Arg Gly Lys Gly Lys Gly Gln Lys Arg Lys Arg Lys Lys
                     5
                                          10
 225 Ser Arg Tyr Lys Ser Trp Ser
 226
                 20
 228 <210> SEQ ID NO: 13
 229 <211> LENGTH: 11
 230 <212> TYPE: PRT
 231 <213> ORGANISM: Artificial sequence
 233 <220> FEATURE:
 234 <221> NAME/KEY: misc feature
 235 <222> LOCATION: ()..()
 236 <223> OTHER INFORMATION: Synthetic
 238 <220> FEATURE:
 239 <221> NAME/KEY: misc_feature
 240 <222> LOCATION: (2)..(4)
 241 <223> OTHER INFORMATION: "Xaa" may be any amino acid
 243 <220> FEATURE:
 244 <221> NAME/KEY: misc_feature
 245 <222> LOCATION: (8)..(10)
 246 <223> OTHER INFORMATION: "Xaa" may be any amino acid
/248 <400> SEQUENCE: 13
250 Cys Xaa Xaa Xaa Arg Asp Gly Xaa Xaa Xaa Cys
 253 <210> SEQ ID NO: 14
 254 <211> LENGTH: 45
 255 <212> TYPE: PRT
 256 <213> ORGANISM: Artificial sequence
 258 <220> FEATURE:
 259 <221> NAME/KEY: misc feature
 260 <222> LOCATION: ()..()
 261 <223> OTHER INFORMATION: Synthetic
 263 <220> FEATURE:
 264 <221> NAME/KEY: misc feature
 265 <222> LOCATION: (2)..(13)
 266 <223> OTHER INFORMATION: "Xaa" may amino acid. Up to 6 of the 12 indicated
 267
           residues may be missing.
 269 <220> FEATURE:
 270 <221> NAME/KEY: misc feature
 271 <222> LOCATION: (15)...(15)
 272 <223> OTHER INFORMATION: "Xaa" may any amino acid
 274 <220> FEATURE:
 275 <221> NAME/KEY: misc feature
 276 <222> LOCATION: (17)..(22)
```

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 07/18/2001 PATENT APPLICATION: US/09/832,355A TIME: 09:49:45 Input Set : A:\205654.txt Output Set: N:\CRF3\07182001\1832355A.raw / 277 <223> OTHER INFORMATION: "Xaa" may any amino acid. Up to 3 of the 6 indicated residues may be missing. 280 <220> FEATURE: 281 <221> NAME/KEY: misc_feature 282 <222> LOCATION: (24)..(29) 283 <223> OTHER INFORMATION: "Xaa" may any amino acid. Up to 3 of the 6 indicated residues may be missing. 286 <220> FEATURE: 287 <221> NAME/KEY: misc feature 288 <222> LOCATION: (31)..(44) 289 <223> OTHER INFORMATION: "Xaa" may any amino acid. Up to 6 of the 14 indicated 290 residues may be missing. 292 <400> SEQUENCE: 14 295 1 10 297 Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa 20 25 35 301

303 <210> SEQ ID NO: 15 304 <211> LENGTH: 498 305 <212> TYPE: PRT 306 <213> ORGANISM: Homo sapiens 308 <400> SEQUENCE: 15 310 Met Thr Val Phe Leu Ser Phe Ala Phe Leu Ala Ala Ile Leu Thr His 311 1 313 Ile Gly Cys Ser Asn Gln Arg Arg Ser Pro Glu Asn Ser Gly Arg Arg 25 316 Tyr Asn Arg Ile Gln His Gly Gln Cys Ala Tyr Thr Phe Ile Leu Pro 319 Glu His Asp Gly Asn Cys Arg Glu Ser Thr Thr Asp Gln Tyr Asn Thr 322 Asn Ala Leu Gln Arg Asp Ala Pro His Val Glu Pro Asp Phe Ser Ser 75 323 65 325 Gln Lys Leu Gln His Leu Glu His Val Met Glu Asn Tyr Thr Gln Trp 90 328 Leu Gln Lys Leu Glu Asn Tyr Ile Val Glu Asn Met Lys Ser Glu Met 105 331 Ala Gln Ile Gln Gln Asn Ala Val Gln Asn His Thr Ala Thr Met Leu 334 Glu Ile Gly Thr Ser Leu Leu Ser Gln Thr Ala Glu Gln Thr Arg Lys 135 337 Leu Thr Asp Val Glu Thr Gln Val Leu Asn Gln Thr Ser Arg Leu Glu 150 155 340 Ile Gln Leu Leu Glu Asn Ser Leu Ser Thr Tyr Lys Leu Glu Lys Gln 170 165 343 Leu Leu Gln Gln Thr Asn Glu Ile Leu Lys Ile His Glu Lys Asn Ser 185 346 Leu Leu Glu His Lys Ile Leu Glu Met Glu Gly Lys His Lys Glu Glu

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/832,355A

DATE: 07/18/2001 TIME: 09:49:46

Input Set : A:\205654.txt

Output Set: N:\CRF3\07182001\I832355A.raw

L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 L:1571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 L:1774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 L:1857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 L:1860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 L:1863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 L:1866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 L:1869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 L:1872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 L:1912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 L:1915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 L:1918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 L:3028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 L:3030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 L:3032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 L:3101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 L:4129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 L:4133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 L:4135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 L:4137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118